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\* \* \* \* \* Welcome to STN International \* \* \* \* \*

|              |   |        |   |
|--------------|---|--------|---|
| NEWS         | 1   |        | Web Page for STN Seminar Schedule - N. America  |
| NEWS         | 2   | JAN 02 | STN pricing information for 2008 now available  |
| NEWS         | 3   | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances              |
| NEWS         | 4   | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats          |
| NEWS         | 5   | JAN 28 | MARPAT searching enhanced   |
| NEWS         | 6   | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication                  |
| NEWS         | 7   | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment                                      |
| NEWS         | 8   | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements                                       |
| NEWS         | 9   | FEB 08 | STN Express, Version 8.3, now available   |
| NEWS         | 10  | FEB 20 | PCI now available as a replacement to DPCI  |
| NEWS         | 11  | FEB 25 | IFIREF reloaded with enhancements   |
| NEWS         | 12  | FEB 25 | IMSPRODUCT reloaded with enhancements   |
| NEWS         | 13  | FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |
| NEWS         | 14  | MAR 31 | IFICDB, IFIPAT, and IFIUIDB enhanced with new custom IPC display formats              |
| NEWS         | 15  | MAR 31 | CAS REGISTRY enhanced with additional experimental spectra                            |
| NEWS         | 16  | MAR 31 | CA/CAPplus and CASREACT patent number format for U.S. applications updated            |
| NEWS         | 17  | MAR 31 | LPCI now available as a replacement to LDPCI  |
| NEWS         | 18  | MAR 31 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements                                 |
| NEWS         | 19  | APR 04 | STN AnaVist, Version 1, to be discontinued  |
| NEWS         | 20  | APR 15 | WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats             |
| NEWS         | 21  | APR 28 | EMBASE Controlled Term thesaurus enhanced   |
| NEWS         | 22  | APR 28 | IMSRESEARCH reloaded with enhancements  |
| NEWS         | 23  | MAY 30 | INPAFAMDB now available on STN for patent family searching                            |
| NEWS         | 24  | MAY 30 | DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option           |
|              |   |        |   |
| NEWS EXPRESS | FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,<br>AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008 |        |   |
|              |   |        |   |
| NEWS HOURS   | STN Operating Hours Plus Help Desk Availability   |        |   |
| NEWS LOGIN   | Welcome Banner and News Items   |        |   |
| NEWS IPC8    | For general information regarding STN implementation of IPC 8                                       |        |   |

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:58:57 ON 05 JUN 2008

=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |

FULL ESTIMATED COST

|      |      |
|------|------|
| 0.21 | 0.21 |
|------|------|

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:59:20 ON 05 JUN 2008

72 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s dicer? or(dsrna?(s)(degrad? or cleav?)) or

((doubl?(s)strand?(s)rna?(s)(degrad? or cleav?)) or (herna?(s)(degrad? or cleav?))

|      |                  |
|------|------------------|
| 1    | FILE ADISCTI     |
| 8    | FILE ADISINSIGHT |
| 368  | FILE AGRICOLA    |
| 1    | FILE ANABSTR     |
| 8    | FILE ANTE        |
| 2    | FILE AQUALINE    |
| 86   | FILE AQUASCI     |
| 236  | FILE BIOENG      |
| 2334 | FILE BIOSIS      |
| 1314 | FILE BIOTECHABS  |
| 1314 | FILE BIOTECHDS   |
| 660  | FILE BIOTECHNO   |

13 FILES SEARCHED...

|       |                |
|-------|----------------|
| 729   | FILE CABA      |
| 1956  | FILE CAPLUS    |
| 30    | FILE CEABA-VTB |
| 10    | FILE CIN       |
| 32    | FILE CONFSCI   |
| 1     | FILE CROPB     |
| 6     | FILE CROPU     |
| 5     | FILE DDFB      |
| 33    | FILE DDFU      |
| 69145 | FILE DGENE     |

23 FILES SEARCHED...

|       |                 |
|-------|-----------------|
| 212   | FILE DISSABS    |
| 5     | FILE DRUGB      |
| 87    | FILE DRUGU      |
| 38    | FILE EMBAL      |
| 1036  | FILE EMBASE     |
| 1361  | FILE ESBIODBASE |
| 70    | FILE FROSTI     |
| 31    | FILE FSTA       |
| 24883 | FILE GENBANK    |

35 FILES SEARCHED...

|   |               |
|---|---------------|
| 1 | FILE HEALSAFE |
|---|---------------|

852 FILE IFIPAT  
 1 FILE IMSPRODUCT  
 1 FILE IMSRESEARCH  
 1510 FILE LIFESCI  
 1301 FILE MEDLINE  
 16 FILE NTIS  
 21 FILE OCEAN  
 626 FILE PASCAL  
 113 FILE PCTGEN  
 1 FILE PHAR  
 1 FILE PHARMAML  
 14 FILE PHIN  
 402 FILE PROMT

53 FILES SEARCHED...

1 FILE RDISCLOSURE  
 1729 FILE SCISEARCH  
 281 FILE TOXCENTER  
 5100 FILE USGENE  
 12510 FILE USPATFULL  
 212 FILE USPATOLD  
 1890 FILE USPAT2  
 2 FILE VETB  
 15 FILE VETU  
 6 FILE WATER  
 1171 FILE WPIDS  
 14 FILE WPIFV  
 1171 FILE WPINDEX

69 FILES SEARCHED...

11 FILE IPA  
 6 FILE NAPRALERT  
 97 FILE NLDB

61 FILES HAVE ONE OR MORE ANSWERS, 72 FILES SEARCHED IN STNINDEX

L1 QUE DICER? OR(DSRNA?(S)(DEGRAD? OR CLEAV?)) OR ((DOUBL?(S) STRAND?(S) RNA?  
 ) (S)(DEGRAD? OR CLEAV?)) OR (HERNA?(S)(DEGRAD? OR CLEAV?))

=> d rank

|     |       |            |
|-----|-------|------------|
| F1  | 69145 | DGENE      |
| F2  | 24883 | GENBANK    |
| F3  | 12510 | USPATFULL  |
| F4  | 5100  | USGENE     |
| F5  | 2334  | BIOSIS     |
| F6  | 1956  | CAPLUS     |
| F7  | 1890  | USPAT2     |
| F8  | 1729  | SCISEARCH  |
| F9  | 1510  | LIFESCI    |
| F10 | 1361  | ESBIOBASE  |
| F11 | 1314  | BIOTECHABS |
| F12 | 1314  | BIOTECHDS  |
| F13 | 1301  | MEDLINE    |
| F14 | 1171  | WPIDS      |
| F15 | 1171  | WPINDEX    |
| F16 | 1036  | EMBASE     |
| F17 | 852   | IFIPAT     |
| F18 | 729   | CABA       |
| F19 | 660   | BIOTECHNO  |
| F20 | 626   | PASCAL     |
| F21 | 402   | PROMT      |
| F22 | 368   | AGRICOLA   |
| F23 | 281   | TOXCENTER  |
| F24 | 236   | BIOENG     |

|     |     |             |
|-----|-----|-------------|
| F25 | 212 | DISSABS     |
| F26 | 212 | USPATOLD    |
| F27 | 113 | PCTGEN      |
| F28 | 97  | NLDB        |
| F29 | 87  | DRUGU       |
| F30 | 86  | AQUASCI     |
| F31 | 70  | FROSTI      |
| F32 | 38  | EMBAL       |
| F33 | 33  | DDFU        |
| F34 | 32  | CONFSCI     |
| F35 | 31  | FSTA        |
| F36 | 30  | CEABA-VTB   |
| F37 | 21  | OCEAN       |
| F38 | 16  | NTIS        |
| F39 | 15  | VETU        |
| F40 | 14  | PHIN        |
| F41 | 14  | WPIFV       |
| F42 | 11  | IPA         |
| F43 | 10  | CIN         |
| F44 | 8   | ADISINSIGHT |
| F45 | 8   | ANTE        |
| F46 | 6   | CROPU       |
| F47 | 6   | WATER       |
| F48 | 6   | NAPRALERT   |
| F49 | 5   | DDFB        |
| F50 | 5   | DRUGB       |
| F51 | 2   | AQUALINE    |
| F52 | 2   | VETB        |
| F53 | 1   | ADISCTI     |
| F54 | 1   | ANABSTR     |
| F55 | 1   | CROPB       |
| F56 | 1   | HEALSAFE    |
| F57 | 1   | IMSPRODUCT  |
| F58 | 1   | IMSRESEARCH |
| F59 | 1   | PHAR        |
| F60 | 1   | PHARMAML    |
| F61 | 1   | RDISCLOSURE |

=> file f2-f13

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

5.85

6.06

FILE 'GENBANK' ENTERED AT 12:04:43 ON 05 JUN 2008

FILE 'USPATFULL' ENTERED AT 12:04:43 ON 05 JUN 2008

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FILE 'USGENE' ENTERED AT 12:04:43 ON 05 JUN 2008

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FILE 'BIOSIS' ENTERED AT 12:04:43 ON 05 JUN 2008

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FILE 'CAPLUS' ENTERED AT 12:04:43 ON 05 JUN 2008

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FILE 'USPAT2' ENTERED AT 12:04:43 ON 05 JUN 2008

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FILE 'SCISEARCH' ENTERED AT 12:04:43 ON 05 JUN 2008

Copyright (c) 2008 The Thomson Corporation

FILE 'LIFESCI' ENTERED AT 12:04:43 ON 05 JUN 2008

COPYRIGHT (C) 2008 Cambridge Scientific Abstracts (CSA)

FILE 'ESBIOBASE' ENTERED AT 12:04:43 ON 05 JUN 2008

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FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'BIOTECHDS' ENTERED AT 12:04:43 ON 05 JUN 2008

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FILE 'MEDLINE' ENTERED AT 12:04:43 ON 05 JUN 2008

```
=> s dicer? or(dsrna?(s)(degrad? or cleav?)) or
((doubl?(s)strand?(s)rna?(s)(degrad? or cleav?)) or (herna?(s)(degrad? or cleav?))
  9 FILES SEARCHED...
```

```
L2      55888 DICER? OR(DSRNA?(S)(DEGRAD? OR CLEAV?)) OR ((DOUBL?(S) STRAND?(S
        ) RNA?(S)(DEGRAD? OR CLEAV?)) OR (HERNA?(S)(DEGRAD? OR CLEAV?))
```

```
=> s l2(s)(huma? or sapien?)
```

```
  7 FILES SEARCHED...
```

```
L3      5818 L2(S)(HUMA? OR SAPIEN?)
```

```
=> s l3(s)(rnase#)
```

```
L4      637 L3(S)(RNASE#)
```

```
=> s l4(s)(bindin##)
```

```
L5      182 L4(S)(BINDIN##)
```

```
=> dup rem l5
```

DUPLICATE IS NOT AVAILABLE IN 'GENBANK, USGENE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L5

```
L6      160 DUP REM L5 (22 DUPLICATES REMOVED)
```

```
=> d ti l6 1-160
```

```
L6      ANSWER 1 OF 160  USPATFULL on STN
```

```
TI      System for High Production of Natural and Personalized Interferons
```

```
L6      ANSWER 2 OF 160  USPATFULL on STN
```

```
TI      OLD-35 as an inflammatory agent
```

```
L6      ANSWER 3 OF 160  USPATFULL on STN
```

```
TI      Methods and Materials Relating to Breast Cancer Diagnosis
```

```
L6      ANSWER 4 OF 160  LIFESCI      COPYRIGHT 2008 CSA on STN
```

```
TI      Mutations in the U5 Region Adjacent to the Primer Binding Site Affect tRNA
        Cleavage by Human Immunodeficiency Virus Type 1 Reverse Transcriptase In
        Vivo
```

```
L6      ANSWER 5 OF 160  USPATFULL on STN
```

```
TI      Human RNase H1 oligonucleotide compositions thereof
```

```
L6      ANSWER 6 OF 160  USPATFULL on STN
```

```
TI      Methods and compositions for the specific inhibition of gene expression
```

by double-stranded RNA

- L6 ANSWER 7 OF 160 USPATFULL on STN  
TI Methods to treat or prevent hormone-resistant prostate cancer using siRNA specific for protocadherin-PC, or other inhibitors of protocadherin-PC expression or activity
- L6 ANSWER 8 OF 160 USPATFULL on STN  
TI Identification of aging genes through large-scale analysis
- L6 ANSWER 9 OF 160 USPATFULL on STN  
TI Compositions and methods for generating short double-stranded rna using mutated rnase III
- L6 ANSWER 10 OF 160 USPATFULL on STN  
TI Primers for synthesizing full-length cDNA and their use
- L6 ANSWER 11 OF 160 USPATFULL on STN  
TI Methods of degrading dsrna and synthesizing rna
- L6 ANSWER 12 OF 160 USPATFULL on STN  
TI RNA interference mediating small RNA molecules
- L6 ANSWER 13 OF 160 USPATFULL on STN  
TI BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL VACCINIA REGULATORY GENES AND USES THEREOF
- L6 ANSWER 14 OF 160 USPATFULL on STN  
TI Preparation of antibody or an antibody fragment-targeted immunoliposomes for systemic administration of therapeutic or diagnostic agents and uses thereof
- L6 ANSWER 15 OF 160 USPATFULL on STN  
TI Anti-pathogen treatments
- L6 ANSWER 16 OF 160 USPATFULL on STN  
TI BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL VACCINIA REGULATORY GENES AND USES THEREOF
- L6 ANSWER 17 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
TI New capture probe comprising a first adapter segment, a second adapter segment and an miRNA binding segment, useful for isolating miRNAs; DNA probe capture and immobilization for microRNA isolation
- L6 ANSWER 18 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 1  
TI Small-molecule activators of RNase L with broad-spectrum antiviral activity
- L6 ANSWER 19 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 2  
TI Identification of the gene encoding a type 1 RNase H with an N-terminal double-stranded RNA binding domain from a psychrotrophic bacterium
- L6 ANSWER 20 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 3  
TI Proteomic and functional analysis of Argonaute-containing mRNA-protein complexes in human cells
- L6 ANSWER 21 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN DUPLICATE  
TI Identification and biochemical analysis of a mitochondrial endonuclease of Podospora anserina related to curved-DNA binding proteins
- L6 ANSWER 22 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN

TI Evolutionary conservation of a unique amino acid sequence in human DICER protein essential for binding to Argonaute family proteins

L6 ANSWER 23 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN

TI Homodimeric Structure and Double-stranded RNA Cleavage Activity of the C-terminal RNase III Domain of Human Dicer

L6 ANSWER 24 OF 160 USPATFULL on STN

TI Methods for the identification, assessment, and treatment of patients with cancer therapy

L6 ANSWER 25 OF 160 USPATFULL on STN

TI Oligomeric compounds and compositions for use in modulation of pri-mirnas

L6 ANSWER 26 OF 160 USPATFULL on STN

TI Identification of gene expression by heart failure etiology

L6 ANSWER 27 OF 160 USPATFULL on STN

TI Cloning and characterization of microRNAs from rice

L6 ANSWER 28 OF 160 USPATFULL on STN

TI Dicer interacting proteins and uses therefor

L6 ANSWER 29 OF 160 USPATFULL on STN

TI Soluble rna polymerase protein and methods for the use thereof

L6 ANSWER 30 OF 160 USPATFULL on STN

TI Allele-specific RNA interference

L6 ANSWER 31 OF 160 USPATFULL on STN

TI Pharmaceutical compositions and methods useful for modulating angiogenesis, inhibiting metastasis and tumor fibrosis, and assessing the malignancy of colon cancer tumors

L6 ANSWER 32 OF 160 USPATFULL on STN

TI Genes displaying enhanced expression during cellular senescence and terminal cell differentiation and uses thereof

L6 ANSWER 33 OF 160 USPATFULL on STN

TI Methods and compositions for generating recombinant nucleic acid molecules

L6 ANSWER 34 OF 160 USPATFULL on STN

TI Means and methods for the specific modulation of target genes in the CNS and the eye and methods for their identification

L6 ANSWER 35 OF 160 USPAT2 on STN

TI DICER INTERACTING PROTEINS AND USES THEREFOR

L6 ANSWER 36 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Composition for inhibiting proliferation of lung cancer exhibiting neuroendocrine differentiation, contains vector having DNA encoding small interfering RNA having sequence of human achaete scute homologue 1 mRNA, and carrier;  
 vector-mediated small interfering RNA-encoding DNA transfer and expression in neuroendocrine differentiation-positive lung cancer for neuroendocrine differentiation-positive lung cancer proliferation inhibition and gene therapy

L6 ANSWER 37 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN

TI DUF283 domain of Dicer proteins has a double-stranded RNA-binding fold  
 L6 ANSWER 38 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 5  
 TI The role of PACT in the RNA silencing pathway  
 L6 ANSWER 39 OF 160 USPATFULL on STN  
 TI Polynucleotide compositions encoding S-adenosyl-L-methionine:phosphoethanolamine N-methyltransferase and methods for modulating lipid biosynthesis in plants  
 L6 ANSWER 40 OF 160 USPATFULL on STN  
 TI Modular design and construction of nucleic acid molecules, aptamer-derived nucleic acid constructs, RNA scaffolds, their expression, and methods of use  
 L6 ANSWER 41 OF 160 USPATFULL on STN  
 TI Oligomeric compounds and compositions for use in modulation small non-coding RNAs  
 L6 ANSWER 42 OF 160 USPATFULL on STN  
 TI Oligo-or polynucleotides  
 L6 ANSWER 43 OF 160 USPATFULL on STN  
 TI Composition and method for introduction of RNA interference sequences into targeted cells and tissues  
 L6 ANSWER 44 OF 160 USPATFULL on STN  
 TI RNA interference mediating small RNA molecules  
 L6 ANSWER 45 OF 160 USPATFULL on STN  
 TI Means and methods for the specific inhibition of genes in cells and tissue of the cns and/or eye  
 L6 ANSWER 46 OF 160 USPATFULL on STN  
 TI Methods and compositions for enhancing the efficacy and specificity of RNAi  
 L6 ANSWER 47 OF 160 USPATFULL on STN  
 TI Methods and compositions for enhancing the efficacy and specificity of RNAi  
 L6 ANSWER 48 OF 160 USPATFULL on STN  
 TI Methods of using mammalian RNase H and compositions thereof  
 L6 ANSWER 49 OF 160 USPATFULL on STN  
 TI Human RNase III and compositions and uses thereof  
 L6 ANSWER 50 OF 160 USPATFULL on STN  
 TI Cell death-related nucleases and their uses  
 L6 ANSWER 51 OF 160 USPATFULL on STN  
 TI Compositions and methods for preparing short RNA molecules and other nucleic acids  
 L6 ANSWER 52 OF 160 USPATFULL on STN  
 TI Acyl-nucleotide probes and methods of their synthesis and use in proteomic analysis  
 L6 ANSWER 53 OF 160 USPATFULL on STN  
 TI Syndecans and angiogenesis  
 L6 ANSWER 54 OF 160 USPATFULL on STN



TI        DECREASING GENE EXPRESSION IN A MAMMALIAN SUBJECT IN VIVO VIA  
            AAV-MEDIATED RNAi EXPRESSION CASSETTE TRANSFER

L6        ANSWER 55 OF 160    USPAT2 on STN  
 TI        Cell death-related nucleases and their uses

L6        ANSWER 56 OF 160    USPAT2 on STN  
 TI        Acyl-nucleotide probes and methods of their synthesis and use in  
            proteomic analysis

L6        ANSWER 57 OF 160    BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI        New composition comprising modified nuclease, useful for treating or  
            preventing a viral disease or a non-viral disease, e.g. Alzheimer  
            disease, Parkinson disease, multiple sclerosis or age-related dementia;  
            the use of a recombinant nuclease and peptide nucleic acid in a  
            composition for a neurodegenerative disease gene therapy application

L6        ANSWER 58 OF 160    BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI        New oligomeric compound that can hybridize with or sterically interfere  
            with nucleic acid molecules comprising or encoding small non-coding RNA  
            targets, useful for treating e.g., cancer and diabetes;  
            vector-mediated human ERK5 protein-specific small interfering RNA and  
            antisense oligonucleotide administration and expression in stem cell  
            for use in disease gene therapy and RNA interference

L6        ANSWER 59 OF 160    BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI        Inactivating a virus (e.g. HCV) in a patient to treat the viral infection  
            comprises administering to the patient a modified small interfering RNA  
            in an amount to inactivate the virus;  
            virus replication inhibition using RNA interference for use in gene  
            therapy

L6        ANSWER 60 OF 160    Elsevier BIOBASE    COPYRIGHT 2008 Elsevier Science B.V.  
            on STN  
 TI        Normal microRNA maturation and germ-line stem cell maintenance requires  
            loquacious, a double-stranded RNA-binding domain protein

L6        ANSWER 61 OF 160    LIFESCI        COPYRIGHT 2008 CSA on STN DUPLICATE 6  
 TI        TRBP recruits the Dicer complex to Ago2 for microRNA processing and gene  
            silencing

L6        ANSWER 62 OF 160    LIFESCI        COPYRIGHT 2008 CSA on STN DUPLICATE 7  
 TI        Structural basis for 5'-end-specific recognition of guide RNA by the A.  
            fulgidus Piwi protein

L6        ANSWER 63 OF 160    LIFESCI        COPYRIGHT 2008 CSA on STN  
 TI        Normal microRNA Maturation and Germ-Line Stem Cell Maintenance Requires  
            Loquacious, a Double-Stranded RNA-Binding Domain Protein

L6        ANSWER 64 OF 160    USPATFULL on STN  
 TI        Methods of using mammalian RNase H and compositions thereof

L6        ANSWER 65 OF 160    USPATFULL on STN  
 TI        Modulation of PAI-1 mRNA-binding protein expression

L6        ANSWER 66 OF 160    USPATFULL on STN  
 TI        Expression profiles for breast cancer and methods of use

L6        ANSWER 67 OF 160    USPATFULL on STN  
 TI        Oligoribonucleotides and ribonucleases for cleaving RNA

L6        ANSWER 68 OF 160    USPATFULL on STN

TI Human RNase III and compositions and uses thereof  
 L6 ANSWER 69 OF 160 USPATFULL on STN  
 TI Human RNase III and compositions and uses thereof  
 L6 ANSWER 70 OF 160 USPATFULL on STN  
 TI Human RNase H1 and oligonucleotide compositions thereof  
 L6 ANSWER 71 OF 160 USPATFULL on STN  
 TI Anti-pathogen treatments  
 L6 ANSWER 72 OF 160 USPAT2 on STN  
 TI RNA interference mediating small RNA molecules  
 L6 ANSWER 73 OF 160 USPAT2 on STN  
 TI RNA interference mediating small RNA molecules  
 L6 ANSWER 74 OF 160 USPAT2 on STN  
 TI Anti-pathogen treatments  
 L6 ANSWER 75 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI New RNase resistant small interfering RNA, useful for treating viral infections, e.g., hepatitis C, influenza virus or coronavirus infection; small interfering RNA transfer and expression in host cell for RNA interference and gene therapy  
 L6 ANSWER 76 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI Making a cell or multicellular organism with resistance to a viral pathogen susceptible to infect the cell or organism by genetically modifying the cell or organism to utilize polynucleic acid molecule or viral RNA transcript as a template; transgenic plant construction using genetically modified cell and polynucleic acid molecule for use in disease-resistance  
 L6 ANSWER 77 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 8  
 TI Two Modes of HIV-1 Polypurine Tract Cleavage Are Affected by Introducing Locked Nucleic Acid Analogs into the (-) DNA Template  
 L6 ANSWER 78 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 9  
 TI The Drosha-DGCR8 complex in primary microRNA processing  
 L6 ANSWER 79 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 10  
 TI Single Processing Center Models for Human Dicer and Bacterial RNase III  
 L6 ANSWER 80 OF 160 USPATFULL on STN  
 TI Human Rnase H1 and oligonucleotide compositions thereof  
 L6 ANSWER 81 OF 160 USPATFULL on STN  
 TI MDA-7 proteins and methods of use thereof  
 L6 ANSWER 82 OF 160 USPATFULL on STN  
 TI Syndecans and angiogenesis  
 L6 ANSWER 83 OF 160 USPATFULL on STN  
 TI 207 human secreted proteins  
 L6 ANSWER 84 OF 160 USPATFULL on STN  
 TI Compositions and methods for the therapy and diagnosis of colon cancer  
 L6 ANSWER 85 OF 160 USPATFULL on STN  
 TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 86 OF 160 USPATFULL on STN  
 TI Genes displaying enhanced expression during cellular senescence and terminal cell differentiation and uses thereof

L6 ANSWER 87 OF 160 USPATFULL on STN  
 TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 88 OF 160 USPATFULL on STN  
 TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 89 OF 160 USPATFULL on STN  
 TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 90 OF 160 USPATFULL on STN  
 TI Compositions and methods for the therapy and diagnosis of pancreatic cancer

L6 ANSWER 91 OF 160 USPATFULL on STN  
 TI Human RNase III and compositions and uses thereof

L6 ANSWER 92 OF 160 USPAT2 on STN  
 TI Genes displaying enhanced expression during cellular senescence and terminal cell differentiation and uses thereof

L6 ANSWER 93 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI Reducing expression of target gene in cell, by incubating dsRNA corresponding to part of target gene with effective amount of composition comprising RNase III domain, and transfecting siRNA into cell; involving DNA primer, polymerase chain reaction and RNA-polymerase

L6 ANSWER 94 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI New nucleobase oligomers that inhibit expression of inhibitor of apoptosis gene, useful for treating cancer and other lymphoproliferative disorders by inducing apoptosis; antisense oligonucleotide or dsRNA transfer and expression in host cell for cancer gene therapy

L6 ANSWER 95 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 11  
 TI Degradation of Double-Stranded RNA by Human Pancreatic Ribonuclease: Crucial Role of Noncatalytic Basic Amino Acid Residues

L6 ANSWER 96 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Identification of eight members of the Argonaute family in the human genome

L6 ANSWER 97 OF 160 USPATFULL on STN  
 TI METHOD FOR GENERATING A SUBTRACTED CDNA LIBRARY AND USES OF THE GENERATED LIBRARY

L6 ANSWER 98 OF 160 USPATFULL on STN  
 TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 99 OF 160 USPATFULL on STN  
 TI Human RNase III and compositions and uses thereof

L6 ANSWER 100 OF 160 USPATFULL on STN  
 TI Human RNase H1 mutants

L6 ANSWER 101 OF 160 USPATFULL on STN  
 TI Compositions and methods for the therapy and diagnosis of colon cancer

L6 ANSWER 102 OF 160 USPATFULL on STN

TI Compositions and methods for the therapy and diagnosis of ovarian cancer  
 L6 ANSWER 103 OF 160 USPAT2 on STN  
 TI MDA-7 nucleic acid molecules and pharmaceutical compositions thereof  
 L6 ANSWER 104 OF 160 USPAT2 on STN  
 TI Human RNase III and compositions and uses thereof  
 L6 ANSWER 105 OF 160 USPAT2 on STN  
 TI Human RNase H1 mutants  
 L6 ANSWER 106 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI Novel dynamic action reference tool (DART) comprising a molecular shaft covalently linked to a linkage polypeptide covalently linked to a molecular point, useful for isolating and analyzing nucleic acids, polypeptides;  
     dynamic action reference tool and vector expression in host cell for use in disease gene therapy  
 L6 ANSWER 107 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI Novel human RNase H1 polypeptide comprising mutations compared to wild type human RNase H1 useful for inhibiting expression of selected protein by antisense oligonucleotide targeted to RNA encoding selected protein; vector plasmid pET17b-mediated gene transfer and expression in host cell for use in gene therapy  
 L6 ANSWER 108 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI Generating mRNA-cDNA hybrids for suppressing cancer-related genes, or treating or preventing microbe related genes, comprises thermocycling steps of promoter-linked double-stranded cDNA or RNA synthesis;  
     useful for gene therapy, high throughput screening, DNA microarray analysis and functional genomics  
 L6 ANSWER 109 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI Regulating gene expression in plants for controlling gene silencing, comprises altering the transcription or translation of an endonuclease nucleotide sequence encoding a polypeptide comprising an exonuclease domain;  
     Arabidopsis sp. transgenic plant and seed construction involving vector-mediated beta-glucuronidase gene transfer and expression in plant cell  
 L6 ANSWER 110 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI Probes for detecting target nucleotide sequence in sample, has sequence that forms hairpin structure having a double-stranded segment and single-stranded loop collectively forming region complementary to target sequence;  
     oligonucleotide DNA probe, RNA probe, peptide nucleic acid probe for detecting target sequence in a sample and for transcription and/or DNA amplification of probe sequence  
 L6 ANSWER 111 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI New synthetic oligomeric compound that is specifically hybridizable with a preselected RNA target, useful for treating an organism having a disease characterized by the undesired production of a protein;  
     RNA-specific oligonucleotide transfer and expression in host cell for gene therapy  
 L6 ANSWER 112 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN  
 TI Human Dicer preferentially cleaves dsRNAs at their termini without a requirement for ATP

L6 ANSWER 113 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Ribonuclease activity and RNA binding of recombinant human Dicer

L6 ANSWER 114 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 12  
 TI Control of developmental timing by small temporal RNAs: a paradigm for RNA-mediated regulation of gene expression

L6 ANSWER 115 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN  
 TI Mouse ribonuclease III. cDNA structure, expression analysis, and chromosomal location

L6 ANSWER 116 OF 160 USPATFULL on STN  
 TI Virus resistant plants expressing animal cell-derived (2'-5')oligadenylate synthetase and ribonuclease L and A method for creating the same

L6 ANSWER 117 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN  
 TI Cobra Venom Factor 1 polypeptides which are analogs of Complement Component C3, useful for identifying compounds that may be used to modulate the complement system;  
 snake venom production involving vector plasmid pSPORT-mediated gene transfer for expression in host cell e.g. Escherichia coli

L6 ANSWER 118 OF 160 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 13  
 TI Investigating the structure of human RNase H1 by site-directed mutagenesis.

L6 ANSWER 119 OF 160 USPATFULL on STN  
 TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 120 OF 160 USPATFULL on STN  
 TI Uses of mda-6

L6 ANSWER 121 OF 160 USPATFULL on STN  
 TI Animal 2-5A-dependent RNases and encoding sequences therefor

L6 ANSWER 122 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 14  
 TI Activation of the Interferon-Inducible (2'-5') Oligoadenylate Synthetase by the Epstein-Barr Virus RNA, EBER-1

L6 ANSWER 123 OF 160 USPATFULL on STN  
 TI Human 26S proteasome subunit components

L6 ANSWER 124 OF 160 USPATFULL on STN  
 TI Peptidyl derivatives as inhibitors of pro-apoptotic cysteine proteinases

L6 ANSWER 125 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN  
 TI The 2-5A system: Modulation of viral and cellular processes through acceleration of RNA degradation

L6 ANSWER 126 OF 160 USPATFULL on STN  
 TI Method for generating a subtracted cDNA library and uses of the generated library

L6 ANSWER 127 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 15  
 TI Catalytic cleavage of an RNA target by 2-5A antisense and RNase L

L6 ANSWER 128 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN  
 TI Induction of apoptotic nuclei by interferon- gamma and by predesquamin in

cultured keratinocytes

- L6 ANSWER 129 OF 160 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation  
on STN DUPLICATE 16
- TI HIV-1 REVERSE TRANSCRIPTASE-ASSOCIATED RNASE-H CLEAVES RNA/RNA IN ARRESTED  
COMPLEXES - IMPLICATIONS FOR THE MECHANISM BY WHICH RNASE-H DISCRIMINATES  
BEWEEN RNA/RNA AND RNA/DNA
- L6 ANSWER 130 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN
- TI Localization of the interferon-induced, 2-5A-Dependent RNase gene (RNS4)  
to human chromosome 1q25
- L6 ANSWER 131 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN
- TI Double-stranded RNA-dependent RNase activity associated with human  
immunodeficiency virus type 1 reverse transcriptase.
- L6 ANSWER 132 OF 160 GENBANK® COPYRIGHT 2008 on STN
- TITLE (TI): Genomic Islands in the Pathogenic Filamentous Fungus  
Aspergillus fumigatus
- TITLE (TI): Direct Submission
- L6 ANSWER 133 OF 160 GENBANK® COPYRIGHT 2008 on STN
- TITLE (TI): Genomic analysis of Bartonella identifies type IV  
secretion systems as host adaptability factors
- TITLE (TI): Direct Submission
- L6 ANSWER 134 OF 160 GENBANK® COPYRIGHT 2008 on STN
- TITLE (TI): Complete sequence of Clostridium phytofermentans ISDg
- TITLE (TI): Direct Submission
- L6 ANSWER 135 OF 160 GENBANK® COPYRIGHT 2008 on STN
- TITLE (TI): The genome sequence of Schizosaccharomyces pombe
- TITLE (TI): Direct Submission
- L6 ANSWER 136 OF 160 GENBANK® COPYRIGHT 2008 on STN
- TITLE (TI): The Chlamydomonas genome reveals the evolution of key  
animal and plant functions
- TITLE (TI): Direct Submission
- L6 ANSWER 137 OF 160 GENBANK® COPYRIGHT 2008 on STN
- TITLE (TI): The genome sequence of Schizosaccharomyces pombe
- TITLE (TI): Direct Submission
- L6 ANSWER 138 OF 160 GENBANK® COPYRIGHT 2008 on STN
- TITLE (TI): Comparative genomics of trypanosomatid parasitic  
protozoa
- TITLE (TI): The Genome of the African Trypanosome Trypanosoma  
brucei
- TITLE (TI): Direct Submission
- L6 ANSWER 139 OF 160 GENBANK® COPYRIGHT 2008 on STN
- TITLE (TI): Genome sequence of a proteolytic (Group I) Clostridium  
botulinum strain Hall A and comparative analysis of the  
clostridial genomes

TITLE (TI): Direct Submission

L6 ANSWER 140 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Comparative genomics of trypanosomatid parasitic protozoa

TITLE (TI): The Genome of the African Trypanosome *Trypanosoma brucei*

TITLE (TI): Sequencing, closure, and annotation of *Trypanosoma brucei* chromosomes 2 through 8

TITLE (TI): Direct Submission

L6 ANSWER 141 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Comparative genomics of trypanosomatid parasitic protozoa

TITLE (TI): The Genome of the African Trypanosome *Trypanosoma brucei*

TITLE (TI): Sequencing, closure, and annotation of *Trypanosoma brucei* chromosomes 2 through 8

TITLE (TI): Direct Submission

L6 ANSWER 142 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Annotation and evolutionary relationships of a small regulatory RNA gene *micF* and its target *ompF* in *Yersinia* species

TITLE (TI): The Complete Genome Sequence and Comparative Genome Analysis of the High Pathogenicity *Yersinia enterocolitica* Strain 8081

TITLE (TI): Direct Submission

L6 ANSWER 143 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete DNA sequence of a serogroup A strain of *Neisseria meningitidis* Z2491

TITLE (TI): Direct Submission

L6 ANSWER 144 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete genome of the mutualistic, N<sub>2</sub>-fixing grass endophyte *Azoarcus* sp. strain BH72

TITLE (TI): Direct Submission

L6 ANSWER 145 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The multidrug-resistant human pathogen *Clostridium difficile* has a highly mobile, mosaic genome

TITLE (TI): The multidrug resistant human pathogen *Clostridium difficile* has a highly mobile, mosaic genome

TITLE (TI): Direct Submission

L6 ANSWER 146 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete Sequence of Chromosome 1 of *Rhodobacter sphaeroides* 2.4.1

TITLE (TI): Direct Submission

L6 ANSWER 147 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete sequence of *Psychrobacter arcticum* 273-4

TITLE (TI): Direct Submission

L6 ANSWER 148 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Extensive DNA inversions in the *B. fragilis* genome  
control variable gene expression

TITLE (TI): Direct Submission

L6 ANSWER 149 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The map-based sequence of the rice genome

TITLE (TI): The Rice Annotation Project Database (RAP-DB): hub for  
*Oryza sativa* ssp. *japonica* genome information

TITLE (TI): Curated genome annotation of *Oryza sativa* ssp. *japonica*  
and comparative genome analysis with *Arabidopsis*  
*thaliana*

TITLE (TI): *Oryza sativa* nipponbare(GA3) genomic DNA, chromosome 3

TITLE (TI): The First Rice Annotation Project Meeting (RAP1)

TITLE (TI): Direct Submission

L6 ANSWER 150 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The genome of the heartwater agent *Ehrlichia*  
*ruminantium* contains multiple tandem repeats of  
actively variable copy number

TITLE (TI): Direct Submission

L6 ANSWER 151 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome sequence of *Yersinia pestis*, the causative agent  
of plague

TITLE (TI): Annotation and evolutionary relationships of a small  
regulatory RNA gene *micF* and its target *ompF* in  
*Yersinia* species

TITLE (TI): Direct Submission

L6 ANSWER 152 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The genome sequence of the food-borne pathogen  
*Campylobacter jejuni* reveals hypervariable sequences

TITLE (TI): Re-annotation and re-analysis of the *Campylobacter*  
*jejuni* NCTC11168 genome sequence

TITLE (TI): Direct Submission

TITLE (TI): Direct Submission

L6 ANSWER 153 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genomic plasticity of the causative agent of  
melioidosis, *Burkholderia pseudomallei*

TITLE (TI): Direct Submission

L6 ANSWER 154 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts

TITLE (TI): Direct Submission

L6 ANSWER 155 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts

TITLE (TI): Direct Submission

L6 ANSWER 156 OF 160 GENBANK® COPYRIGHT 2008 on STN



TITLE (TI): Genome evolution in yeasts  
TITLE (TI): Direct Submission

L6 ANSWER 157 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts  
TITLE (TI): Direct Submission

L6 ANSWER 158 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts  
TITLE (TI): Direct Submission

L6 ANSWER 159 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete genomes of two clinical Staphylococcus aureus strains: evidence for the rapid evolution of virulence and drug resistance  
TITLE (TI): Direct Submission

L6 ANSWER 160 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Sequencing and analysis of the genome of the Whipple's disease bacterium Tropheryma whipp lei  
TITLE (TI): Direct Submission

=> d ibib abs 16 6 9 11 12 22 23 28 37 95 99 113

L6 ANSWER 6 OF 160 USPATFULL on STN

ACCESSION NUMBER: 2007:303223 USPATFULL  
TITLE: Methods and compositions for the specific inhibition of gene expression by double-stranded RNA  
INVENTOR(S): Rossi, John J., Alta Loma, CA, UNITED STATES  
Behlke, Mark A., Coralville, IA, UNITED STATES  
Kim, Dongho, Los Angeles, CA, UNITED STATES  
PATENT ASSIGNEE(S): City of Hope, Duarte, CA, UNITED STATES (U.S. corporation)  
Integrated DNA Technologies, Inc., Coralville, IA, UNITED STATES (U.S. corporation)

|                       | NUMBER  | KIND | DATE          |
|-----------------------|---|------|---------------|
| PATENT INFORMATION:   | US 20070265220  | A1   | 20071115      |
| APPLICATION INFO.:    | US 2007-797216  | A1   | 20070501 (11) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2005-79906, filed on 15 Mar 2005, PENDING |      |               |

|  | NUMBER   | DATE          |
|--|--|---------------|
| PRIORITY INFORMATION:                      | US 2004-553487P  | 20040315 (60) |
| DOCUMENT TYPE:                             | Utility  |               |
| FILE SEGMENT:                              | APPLICATION  |               |
| LEGAL REPRESENTATIVE:                      | ROTHWELL, FIGG, ERNST & MANBECK, P.C., 1425 K STREET, N.W., SUITE 800, WASHINGTON, DC, 20005, US |               |
| NUMBER OF CLAIMS:                          | 14   |               |
| EXEMPLARY CLAIM:                           | 1  |               |
| NUMBER OF DRAWINGS:                        | 31 Drawing Page(s)   |               |
| LINE COUNT:                                | 4653   |               |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |  |               |

AB The invention is directed to compositions and methods for selectively reducing the expression of a gene product from a desired target gene in

a cell, as well as for treating diseases caused by the expression of the gene. More particularly, the invention is directed to compositions that contain double stranded RNA ("dsRNA"), and methods for preparing them, that are capable of reducing the expression of target genes in eukaryotic cells. The dsRNA has a first oligonucleotide sequence that is between 25 and about 30 nucleotides in length and a second oligonucleotide sequence that anneals to the first sequence under biological conditions. In addition, a region of one of the sequences of the dsRNA having a sequence length of at least 19 nucleotides is sufficiently complementary to a nucleotide sequence of the RNA produced from the target gene to trigger the destruction of the target RNA by the RNAi machinery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 160 USPATFULL on STN

ACCESSION NUMBER: 2007:177863 USPATFULL

TITLE: Compositions and methods for generating short double-stranded rna using mutated rnase III

INVENTOR(S): Maina, Claude V., West Newbury, NY, UNITED STATES

Tzertzinis, George, Cambridge, MA, UNITED STATES

Kumar, Sanjay, Ipswich, MA, UNITED STATES

PATENT ASSIGNEE(S): New England Biolabs, Inc., Ipswich, MA, UNITED STATES, 01938 (U.S. corporation)

|                     | NUMBER         | KIND | DATE     |              |
|---------------------|----------------|------|----------|--------------|
| PATENT INFORMATION: | US 20070155684 | A1   | 20070705 |              |
| APPLICATION INFO.:  | US 2005-586720 | A1   | 20050121 | (10)         |
|                     | WO 2005-US2029 |      | 20050121 |              |
|                     |                |      | 20060720 | PCT 371 date |

|                       | NUMBER          | DATE          |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2004-538805P | 20040123 (60) |
|                       | US 2004-543880P | 20040212 (60) |
|                       | US 2004-572240P | 20040518 (60) |

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HARRIET M. STRIMPEL, NEW ENGLAND BIOLABS, INC., 240 COUNTY ROAD, IPSWICH, MA, 01938-2723, US

NUMBER OF CLAIMS: 30

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 17 Drawing Page(s)

LINE COUNT: 1831

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods are provided for preparing an hsiRNA mixture and for silencing of gene expression in vivo. The composition relates to a mutant RnaseIII. The methods are directed to reacting a preparation of dsRNA with an effective amount of a mutant RNase III to produce the hsiRNA mixture.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 11 OF 160 USPATFULL on STN

ACCESSION NUMBER: 2007:120911 USPATFULL

TITLE: Methods of degrading dsrna and synthesizing rna

INVENTOR(S): Sagawa, Hiroaki, Shiga, JAPAN

Tomono, Jun, Okayama, JAPAN

Ueno, Harumi, Shiga, JAPAN

Kato, Ikunoshin, Shiga, JAPAN

PATENT ASSIGNEE(S): TAKARA BIO INC., Otsu-shi, JAPAN, 520-2193 (non-U.S.)

corporation)

|                     | NUMBER          | KIND | DATE     |              |
|---------------------|-----------------|------|----------|--------------|
| PATENT INFORMATION: | US 20070105113  | A1   | 20070510 |              |
| APPLICATION INFO.:  | US 2004-567731  | A1   | 20040810 | (10)         |
|                     | WO 2004-JP11480 |      | 20040810 |              |
|                     |                 |      | 20060210 | PCT 371 date |

|                       | NUMBER   | DATE     |
|-----------------------|--|----------|
| PRIORITY INFORMATION: | JP 2003-293553   | 20030814 |
|                       | JP 2003-342126   | 20030930 |
|                       | JP 2003-409639   | 20031208 |
|                       | JP 2004-86129  | 20040324 |
| DOCUMENT TYPE:        | Utility  |          |
| FILE SEGMENT:         | APPLICATION  |          |
| LEGAL REPRESENTATIVE: | BROWDY AND NEIMARK, P.L.L.C., 624 NINTH STREET, NW,<br>SUITE 300, WASHINGTON, DC, 20001-5303, US |          |
| NUMBER OF CLAIMS:     | 29   |          |
| EXEMPLARY CLAIM:      | 1  |          |
| LINE COUNT:           | 3027   |          |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A protein having an activity of degrading a dsRNA, namely, being capable of acting on a long-chain dsRNA to form a dsRNA of a definite length; a method of efficiently preparing a dsRNA of a definite length which comprises treating a dsRNA with the protein having an activity of degrading a dsRNA in the coexistence of a protein having an activity of binding to a nucleic acid such as a protein having an RNA-binding activity; and a method of using the protein having an activity of binding to a nucleic acid to elevate the efficiency in an RNA synthesis reaction typified by dsRNA synthesis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 12 OF 160 USPATFULL on STN  
ACCESSION NUMBER: 2007:107472 USPATFULL  
TITLE: RNA interference mediating small RNA molecules  
INVENTOR(S): Tuschl, Thomas, New York, NY, UNITED STATES  
Elbashir, Sayda Mahgoub, Cambridge, MA, UNITED STATES  
Lendeckel, Winfried, Hohengandern, GERMANY, FEDERAL  
REPUBLIC OF  
PATENT ASSIGNEE(S): Max-Planck-Gesellschaft zur Forderung der  
Wissenschaften e. V., Munchen, GERMANY, FEDERAL  
REPUBLIC OF (non-U.S. corporation)

|                       | NUMBER   | KIND | DATE          |
|-----------------------|--|------|---------------|
| PATENT INFORMATION:   | US 20070093445   | A1   | 20070426      |
| APPLICATION INFO.:    | US 2006-634129   | A1   | 20061206 (11) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2004-433050, filed on 26 Jul<br>2004, PENDING A 371 of International Ser. No. WO<br>2001-EP13968, filed on 29 Nov 2001 |      |               |

|                       | NUMBER  | DATE          |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | EP 2000-126325  | 20001201      |
|                       | US 2001-279661P   | 20010330 (60) |
| DOCUMENT TYPE:        | Utility   |               |
| FILE SEGMENT:         | APPLICATION   |               |
| LEGAL REPRESENTATIVE: | ROTHWELL, FIGG, ERNST & MANBECK, P.C., 1425 K STREET,<br>N.W., SUITE 800, WASHINGTON, DC, 20005, US |               |

NUMBER OF CLAIMS: 29  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 23 Drawing Page(s)  
LINE COUNT: 2309

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Double-stranded RNA (dsRNA) induces sequence-specific post-transcriptional gene silencing in many organisms by a process known as RNA interference (RNAi). Using a *Drosophila* in vitro system, we demonstrate that 19-23 nt short RNA fragments are the sequence-specific mediators of RNAi. The short interfering RNAs (siRNAs) are generated by an RNase III-like processing reaction from long dsRNA. Chemically synthesized siRNA duplexes with overhanging 3' ends mediate efficient target RNA cleavage in the lysate, and the cleavage site is located near the center of the region spanned by the guiding siRNA. Furthermore, we provide evidence that the direction of dsRNA processing determines whether sense or antisense target RNA can be cleaved by the produced siRNP complex.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 22 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:683471 CAPLUS  
DOCUMENT NUMBER: 147:252868  
TITLE: Evolutionary conservation of a unique amino acid sequence in human DICER protein essential for binding to Argonaute family proteins  
AUTHOR(S): Sasaki, Takashi; Shimizu, Nobuyoshi  
CORPORATE SOURCE: Department of Molecular Biology, Keio University School of Medicine, Shinjuku-ku, Tokyo, 160-8582, Japan  
SOURCE: Gene (2007), 396(2), 312-320  
CODEN: GENED6; ISSN: 0378-1119  
PUBLISHER: Elsevier B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The Argonaute family and DICER proteins are major key proteins involved in the RNA-mediated gene silencing mechanism of various species. In this mechanism, cleavage of mRNAs (mRNA) or suppression of mRNA translation takes place via small RNAs that are uniquely processed by DICER. Previously, human Argonaute family proteins were demonstrated to bind to DICER. This study identified a unique amino acid sequence of 127 amino acids in the RIBOc-A domain of human DICER protein as a "binding site" to Argonaute proteins. Comparative genomics anal. revealed that this unique amino acid sequence is highly conserved in the vertebrates, but not found in the non-vertebrate species. Significant difference in the RIBOc-A domain of DICER protein between vertebrate and non-vertebrate species may help exploring the functional complexity in the RNA-mediated gene silencing mechanism.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 23 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN

ACCESSION NUMBER: 2007297926 ESBIOWASE  
TITLE: Homodimeric Structure and Double-stranded RNA Cleavage Activity of the C-terminal RNase III Domain of Human Dicer  
AUTHOR: Takeshita D.; Zenno S.; Lee W.C.; Nagata K.; Saigo K.; Tanokura M.  
CORPORATE SOURCE: M. Tanokura, Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku,

Tokyo, 113-8657, Japan.  
 E-mail: amtanok@mail.ecc.u-tokyo.ac.jp  
 SOURCE: Journal of Molecular Biology, (16 NOV 2007), 374/1  
 (106-120), 48 reference(s)  
 CODEN: JMOBAK ISSN: 0022-2836  
 PUBLISHER ITEM IDENT.: S0022283607011680  
 DOCUMENT TYPE: Journal; Article  
 COUNTRY: United Kingdom  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English

AB Human Dicer contains two RNase III domains  
 (RNase IIIa and RNase IIIb) that are responsible for  
 the production of short interfering RNAs and microRNAs. These  
 small RNAs induce gene silencing known as RNA  
 interference. Here, we report the crystal structure of the C-terminal  
 RNase III domain (RNase IIIb) of human  
 Dicer at 2.0 Å resolution. The structure revealed that the  
 RNase IIIb domain can form a tightly associated homodimer, which  
 is similar to the dimers of the bacterial RNase III domains and  
 the two RNase III domains of Giardia Dicer.  
 Biochemical analysis showed that the RNase IIIb homodimer can  
 cleave double-stranded RNAs (dsRNAs), and generate short dsRNAs with 2 nt 3'  
 overhang, which is characteristic of RNase III products. The  
 RNase IIIb domain contained two magnesium ions per monomer around  
 the active site. The distance between two Mg-1 ions is approximately 20.6  
 Å, almost identical with those observed in bacterial RNase  
 III enzymes and Giardia Dicer, while the locations of two Mg-2  
 ions were not conserved at all. We presume that Mg-1 ions act as  
 catalysts for dsRNA cleavage, while Mg-2 ions are  
 involved in RNA binding. .COPYRGHT. 2007 Elsevier Ltd.  
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L6 ANSWER 28 OF 160 USPATFULL on STN  
 ACCESSION NUMBER: 2006:267680 USPATFULL  
 TITLE: Dicer interacting proteins and uses therefor  
 INVENTOR(S): Mello, Craig C., Shrewsbury, MA, UNITED STATES  
 PATENT ASSIGNEE(S): UNIVERSITY OF MASSACHUSETTS, Boston, MA, UNITED STATES  
 (U.S. corporation)

|                     | NUMBER         | KIND | DATE          |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 20060228361 | A1   | 20061012      |
|                     | US 20070031417 | A2   | 20070208      |
| APPLICATION INFO.:  | US 2005-107336 | A1   | 20050414 (11) |

|                       | NUMBER  | DATE          |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 2004-562420P   | 20040414 (60) |
| DOCUMENT TYPE:        | Utility   |               |
| FILE SEGMENT:         | APPLICATION   |               |
| LEGAL REPRESENTATIVE: | LAHIVE & COCKFIELD, 28 STATE STREET, BOSTON, MA, 02109,<br>US |               |
| NUMBER OF CLAIMS:     | 30  |               |
| EXEMPLARY CLAIM:      | 1   |               |
| NUMBER OF DRAWINGS:   | 11 Drawing Page(s)  |               |
| LINE COUNT:           | 11730   |               |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Dicer (e.g., DCR-1) interactors are disclosed as are methods to  
 positively or negatively modulate Dicer activity. Uses of Dicer  
 interactors as drug targets are featured. Also featured are uses of  
 Dicer interactors and modulators of same to modulate various Dicer

functions in vitro, in cell cultures, and in vivo.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 37 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1189497 CAPLUS

DOCUMENT NUMBER: 146:158125

TITLE: DUF283 domain of Dicer proteins has a double-stranded RNA-binding fold

AUTHOR(S): Dlakic, Mensur

CORPORATE SOURCE: Department of Microbiology, Montana State University, Bozeman, MT, 59717, USA

SOURCE: Bioinformatics (2006), 22(22), 2711-2714

CODEN: BOINFP; ISSN: 1367-4803

PUBLISHER: Oxford University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Two RNases, Dicer and Argonaute, are at the heart of the RNA interference (RNAi) mol. machinery responsible for gene silencing. Both RNases contain multiple domains, most of which have been characterized or have functions that can be predicted based on sequence comparisons. However, Dicers of higher eukaryotes contain the domain known as DUF283 which at present has no assigned role. Using sensitive profile-profile comparisons, the authors detected a divergent double-stranded RNA-binding domain coinciding with the DUF283 of Dicer. This finding has potential implications regarding the mechanistic role of Dicer in RNAi.

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 95 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 11

ACCESSION NUMBER: 2004:65552 LIFESCI

TITLE: Degradation of Double-Stranded RNA by Human Pancreatic Ribonuclease: Crucial Role of Noncatalytic Basic Amino Acid Residues

AUTHOR: Sorrentino, S.; Naddeo, M.; Russo, A.; D'Alessio, G.

CORPORATE SOURCE: Department of Biological Chemistry, University Federico II of Naples, Naples, Italy

SOURCE: Biochemistry (Washington) [Biochemistry (Wash.)], (2003)0902  
) vol. 42, no. 34, pp. 10182-10190.  
ISSN: 0006-2960.

DOCUMENT TYPE: Journal

FILE SEGMENT: N

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Under physiological salt conditions double-stranded (ds) RNA is resistant to the action of most mammalian extracellular ribonucleases (RNases). However, some pancreatic-type RNases are able to degrade dsRNA under conditions in which the activity of bovine RNase A, the prototype of the RNase superfamily, is essentially undetectable. Human pancreatic ribonuclease (HP-RNase) is the most powerful enzyme to degrade dsRNA within the tetrapod RNase superfamily, being 500-fold more active than the orthologous bovine enzyme on this substrate. HP-RNase has basic amino acids at positions where RNase A shows instead neutral residues. We found by modeling that some of these basic charges are located on the periphery of the substrate binding site. To verify the role of these residues in the cleavage of dsRNA, we prepared four variants of HP-RNase: R4A, G38D, K102A, and the triple mutant R4A/G38D/K102A. The overall structure and active site conformation of the variants were not significantly affected by the amino acid substitutions, as deduced from CD

spectra and activity on single-stranded RNA substrates. The kinetic parameters of the mutants with double-helical poly(A) times poly(U) as a substrate were determined, as well as their helix-destabilizing action on a synthetic DNA substrate. The results obtained indicate that the potent activity of HP-RNase on dsRNA is related to the presence of noncatalytic basic residues which cooperatively contribute to the binding and destabilization of the double-helical RNA molecule. These data and the wide distribution of the enzyme in different organs and body fluids suggest that HP-RNase has evolved to perform both digestive and nondigestive physiological functions.

L6 ANSWER 99 OF 160 USPATFULL on STN  
 ACCESSION NUMBER: 2002:294558 USPATFULL  
 TITLE: Human RNase III and compositions and uses thereof  
 INVENTOR(S): Wu, Hongjiang, Carlsbad, CA, UNITED STATES  
 Crooke, Stanley T., Carlsbad, CA, UNITED STATES

|  | NUMBER  | KIND | DATE         |
|--|---|------|--------------|
| PATENT INFORMATION:                        | US 20020164601  | A1   | 20021107     |
|  | US 6737512  | B2   | 20040518     |
| APPLICATION INFO.:                         | US 2001-900425  | A1   | 20010706 (9) |
| RELATED APPLN. INFO.:                      | Continuation-in-part of Ser. No. US 2000-479783, filed on 7 Jan 2000, PENDING Division of Ser. No. US 1997-870608, filed on 6 Jun 1997, PATENTED Continuation-in-part of Ser. No. US 1996-659440, filed on 6 Jun 1996, PATENTED |      |              |
| DOCUMENT TYPE:                             | Utility   |      |              |
| FILE SEGMENT:                              | APPLICATION   |      |              |
| LEGAL REPRESENTATIVE:                      | John W. Caldwell, WOODCOCK WASHBURN LLP, One Liberty Place-46th Floor, Philadelphia, PA, 19103  |      |              |
| NUMBER OF CLAIMS:                          | 52  |      |              |
| EXEMPLARY CLAIM:                           | 1   |      |              |
| NUMBER OF DRAWINGS:                        | 2 Drawing Page(s)   |      |              |
| LINE COUNT:                                | 1423  |      |              |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. |   |      |              |
| AB   | The present invention provides polynucleotides encoding human RNase III and polypeptides encoded thereby. Methods of using said polynucleotides and polypeptides are also provided.   |      |              |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 113 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2002:840867 CAPLUS  
 DOCUMENT NUMBER: 138:119175  
 TITLE: Ribonuclease activity and RNA binding of recombinant human Dicer  
 AUTHOR(S): Provost, Patrick; Dishart, David; Doucet, Johanne; Frendewey, David; Samuelsson, Bengt; Radmark, Olof  
 CORPORATE SOURCE: Department of Medical Biochemistry and Biophysics, Karolinska Institute, Stockholm, S-171 77, Swed.  
 SOURCE: EMBO Journal (2002), 21(21), 5864-5874  
 CODEN: EMJODG; ISSN: 0261-4189  
 PUBLISHER: Oxford University Press  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB RNA silencing phenomena, known as post-transcriptional gene silencing in plants, quelling in fungi, and RNA interference (RNAi) in animals, are mediated by double-stranded RNA (dsRNA) and mechanistically intersect at the RNase Dicer. Here, we report cloning and expression of the 218 kDa human Dicer, and characterization of its RNase

activity and dsRNA-binding properties. The recombinant enzyme generated .apprx.21-23 nucleotide products from dsRNA. Processing of the microRNA let-7 precursor by Dicer produced an apparently mature let-7 RNA. Mg2+ was required for dsRNase activity, but not for dsRNA binding, thereby uncoupling these reaction steps. ATP was dispensable for dsRNase activity in vitro. The Dicer·dsRNA complex formed at high KCl concns. was catalytically inactive, suggesting that ionic interactions are involved in dsRNA cleavage. The putative dsRNA-binding domain located at the C-terminus of Dicer was demonstrated to bind dsRNA in vitro. Human Dicer expressed in mammalian cells colocalized with calreticulin, a resident protein of the endoplasmic reticulum. Availability of the recombinant Dicer protein will help improve our understanding of RNA silencing and other Dicer-related processes.

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 11:58:57 ON 05 JUN 2008)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:59:20 ON 05 JUN 2008  
SEA DICER? OR(DSRNA?(S)(DEGRAD? OR CLEAV?)) OR ((DOUBL?(S)STRAN

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1  FILE ADISCTI
8  FILE ADISINSIGHT
368 FILE AGRICOLA
1  FILE ANABSTR
8  FILE ANTE
2  FILE AQUALINE
86  FILE AQUASCI
236 FILE BIOENG
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5  FILE DDFB
33  FILE DDFU
69145 FILE DGENE
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87  FILE DRUGU
38  FILE EMBAL
1036 FILE EMBASE
1361 FILE ESBIODASE
70  FILE FROSTI
31  FILE FSTA
24883 FILE GENBANK
1  FILE HEALSAFE
852 FILE IFIPAT
1  FILE IMSPRODUCT
1  FILE IMSRESEARCH

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1510 FILE LIFESCI  
 1301 FILE MEDLINE  
 16 FILE NTIS  
 21 FILE OCEAN  
 626 FILE PASCAL  
 113 FILE PCTGEN  
 1 FILE PHAR  
 1 FILE PHARMAML  
 14 FILE PHIN  
 402 FILE PROMT  
 1 FILE RDISCLOSURE  
 1729 FILE SCISEARCH  
 281 FILE TOXCENTER  
 5100 FILE USGENE  
 12510 FILE USPATFULL  
 212 FILE USPATOLD  
 1890 FILE USPAT2  
 2 FILE VETB  
 15 FILE VETU  
 6 FILE WATER  
 1171 FILE WPIDS  
 14 FILE WPIFV  
 1171 FILE WPINDEX  
 11 FILE IPA  
 6 FILE NAPRALERT  
 97 FILE NLDB

L1 QUE DICER? OR(DSRNA?(S)(DEGRAD? OR CLEAV?)) OR ((DOUBL?(S) STRA  
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FILE 'GENBANK, USPATFULL, USGENE, BIOSIS, CAPLUS, USPAT2, SCISEARCH,  
 LIFESCI, ESBIODBASE, BIOTECHDS, MEDLINE' ENTERED AT 12:04:43 ON 05 JUN 2008

L2 55888 S DICER? OR(DSRNA?(S)(DEGRAD? OR CLEAV?)) OR ((DOUBL?(S)STRAND?  
 L3 5818 S L2(S)(HUMA? OR SAPIEN?)  
 L4 637 S L3(S)(RNASE#)  
 L5 182 S L4(S)(BINDIN##)  
 L6 160 DUP REM L5 (22 DUPLICATES REMOVED)

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|--|------------|---------|
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 173.18     | 179.24  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | -2.40      | -2.40   |

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